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Developer
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Spring 2002
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Video

The Future of Mobile Computing

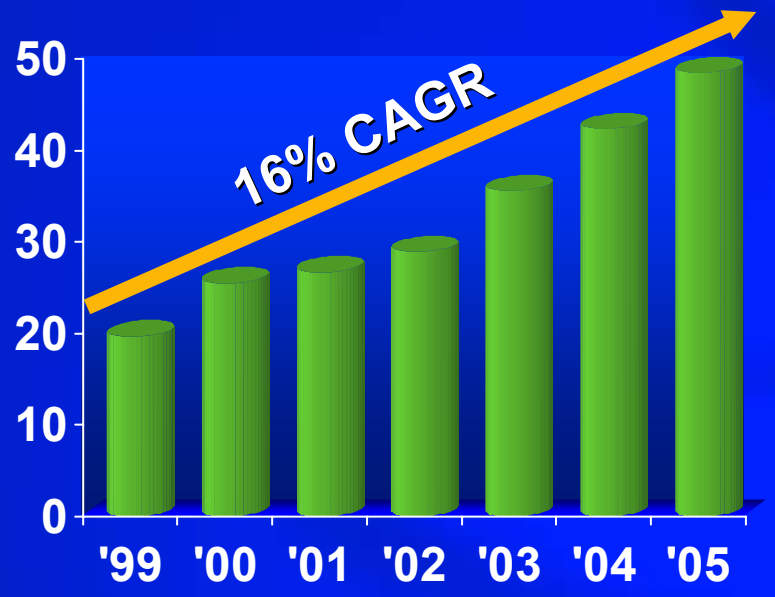
Anand Chandrasekher
Vice President
Mobile Platforms Group

February 27, 2002

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Environment



Dataquest Mobile PC TAM Forecast
(December, 2001)

- Mobile market grew in ’01 despite industry downturn
- Wireless networking: key inflection point
- Expect strong growth going forward

“Notebook sales saved Christmas.”

CNET, *“Notebook sales lift holiday retail PC figures,”* 1/7/02

An Historical Perspective

1996



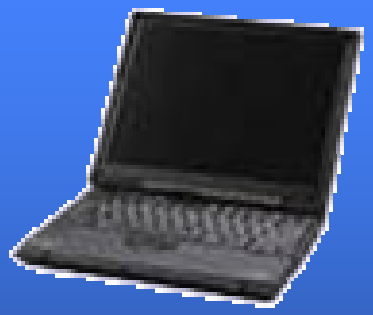
Toshiba Satellite Pro
410 Series
Pentium® 100 MHz
7.48 lbs
2.2” z height
11.3” TFT Active Matrix
Battery life: 2.5 hrs

1998



Dell Latitude CP
Pentium® II 233 MHz
5.6 lbs
1.5” z height
12.1” TFT Active Matrix
Battery life: 3 hrs

2001



IBM Thinkpad T-22
Pentium® III 800 MHz
5.2 lbs
1.3” z height
13.3” XGA
Battery life 3.5 hrs

Performance Increasing; Size & Weight Decreasing

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Computing & Connectivity Anywhere And Anytime

Today

Portable PC

Computing-
Anytime, Anywhere



- High Performance
- Thin-n-Light Form Factors

Emerging Usage

Wireless Mobile PC

Computing and Connectivity-
Anytime, Anywhere



- Wireless Network Collaboration and Discovery
- Seamless Roaming
- Extended Battery Life

Future

Natural Interaction

Simplifying Your Experience Through Natural Interfaces



- Modular Form Factors: tablets, convertibles

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Mobile Platform Evolution Over Time

Trend Towards Greater Mobility



Full Size Notebook



Thin & Light Notebook



Mini Notebook



Sub-NB and Tablet

Segments

’01-’02



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Trend Towards Greater Mobility

Segments

'03-'04



Full Size Notebook



Thin & Light Notebook



Mini Notebook



Sub-NB and Tablet

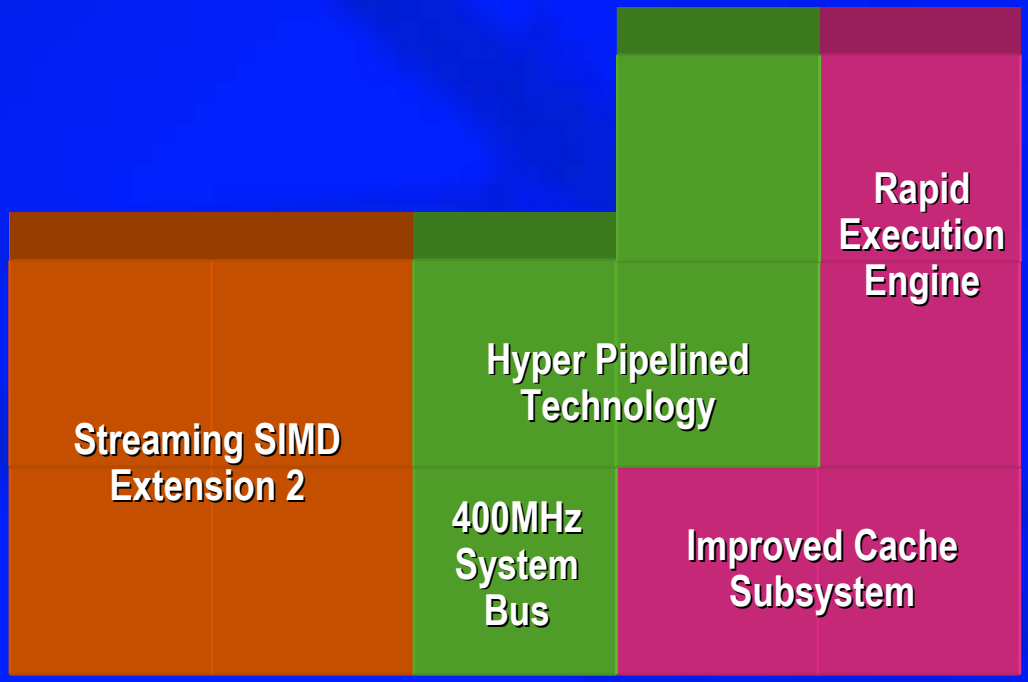
Sweet Spot Moving to Thin & Light

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2002: Intel Pentium® 4 Processor Goes Mobile

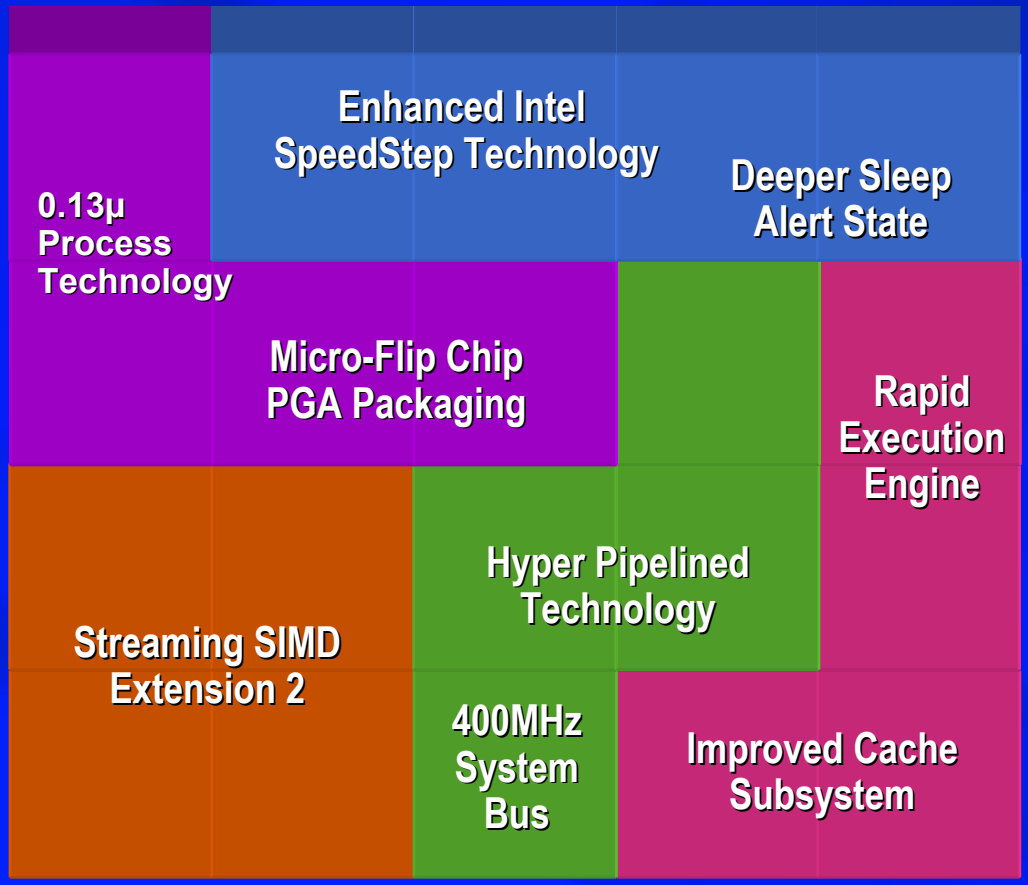




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2002: Intel Pentium® 4 Processor Goes Mobile





Pentium® 4 Processor-M's mobile-friendly features allow it to fit in all mainstream form factors

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Demo

Mobile Intel® Pentium® 4 Processor–M & Intel® 845 Chipset

High Performance

>1.5GHz
NetBurst™ Micro-architecture
400MHz PSB
DDR 266MHz
.13 Micro Process Technology
AGP4x

Long Battery Life

Enhanced Intel® SpeedStep™ Technology Supported
Deep Sleep &
Deeper Sleep Alert State



Wireless Connectivity

Intel Hub Architecture for faster I/O
Higher performance, lower power for better wireless experience

Innovative Form Factor

Micro Flip Chip Pin Grid Array Mobile Packaging Technology
IMVP III

Pentium® 4 Processor Goes Mobile

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Demo

Wireless connectivity will change the way you use your Mobile PC

Intel's Mobility Vision

Computing and Connectivity Anytime Anywhere

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Intel's Mobility Vision

Computing and Connectivity Anytime Anywhere

Seamless Wireless Connectivity
That just works!
Securely
Wherever you are



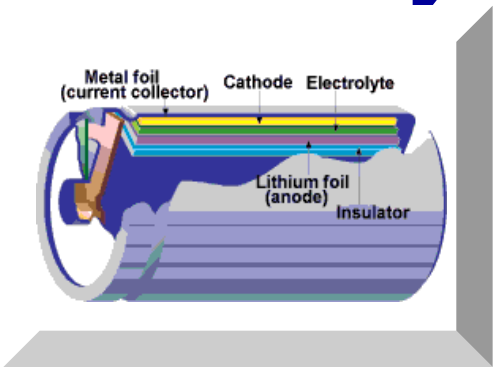
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Intel's Mobility Vision

Computing and Connectivity Anytime Anywhere

Seamless Wireless Connectivity
That just works!
Securely
Wherever you are

A Battery That Lasts…
As long as you do
Without weighing you down



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Intel's Mobility Vision

Computing and Connectivity Anytime Anywhere

Seamless Wireless Connectivity
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Securely
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Innovative new form factors
That are easy to use
Small and light enough
To carry them everywhere

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Intel's Mobility Vision

Computing and Connectivity Anytime Anywhere

Seamless Wireless Connectivity
That just works!
Securely
Wherever you are

A Battery That Lasts…
As long as you do
Without weighing you down



Great Performance
To handle every application
Foreground and background
While streaming data smoothly

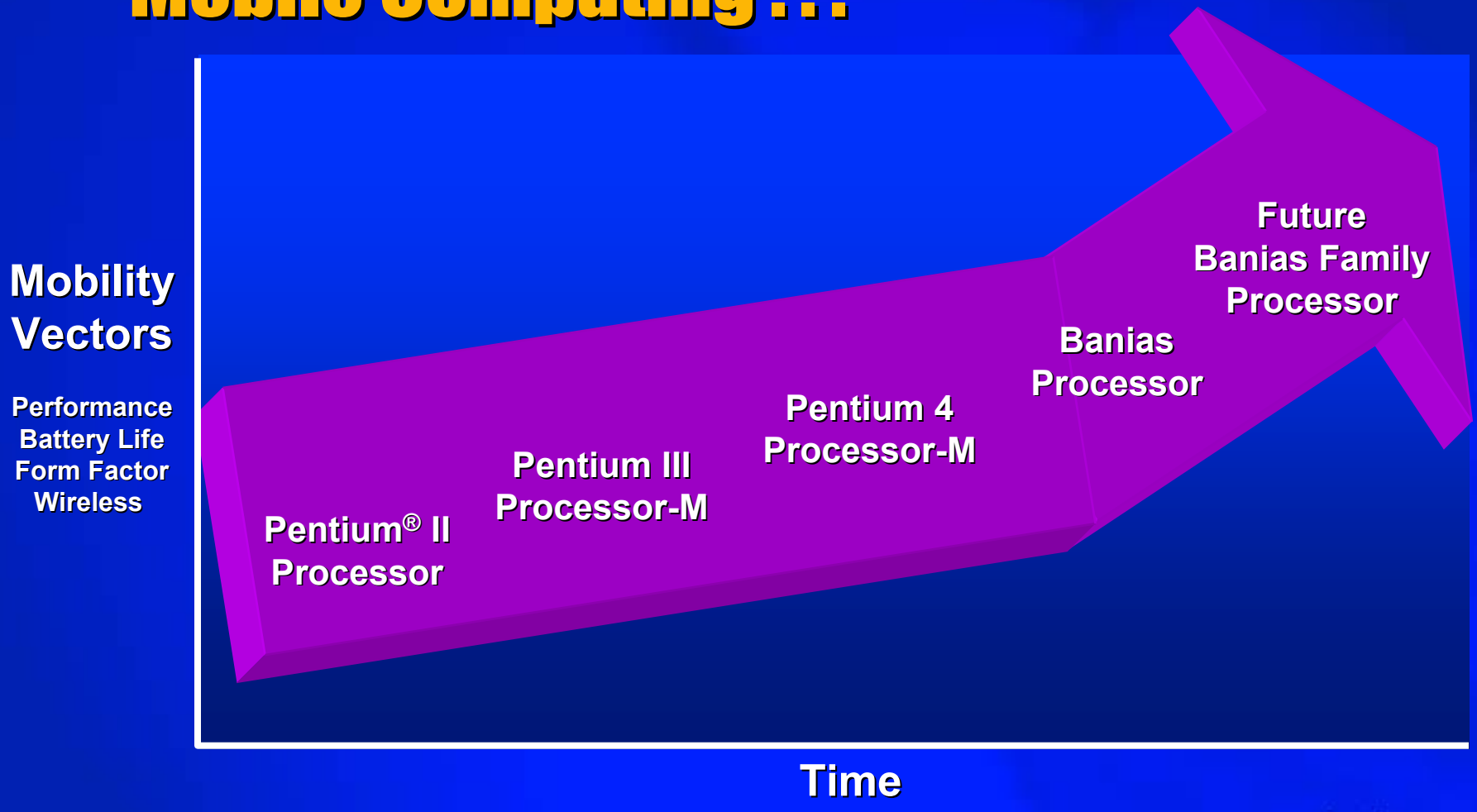
Innovative new form factors
That are easy to use
Small and light enough
To carry them everywhere

Ushering In A New Era of Mobile Computing

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Demo

Intel Investing For the New Era of Mobile Computing . . .



New Banias Family Product Line

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Designing For Mobility Requires Industry Focus . . .

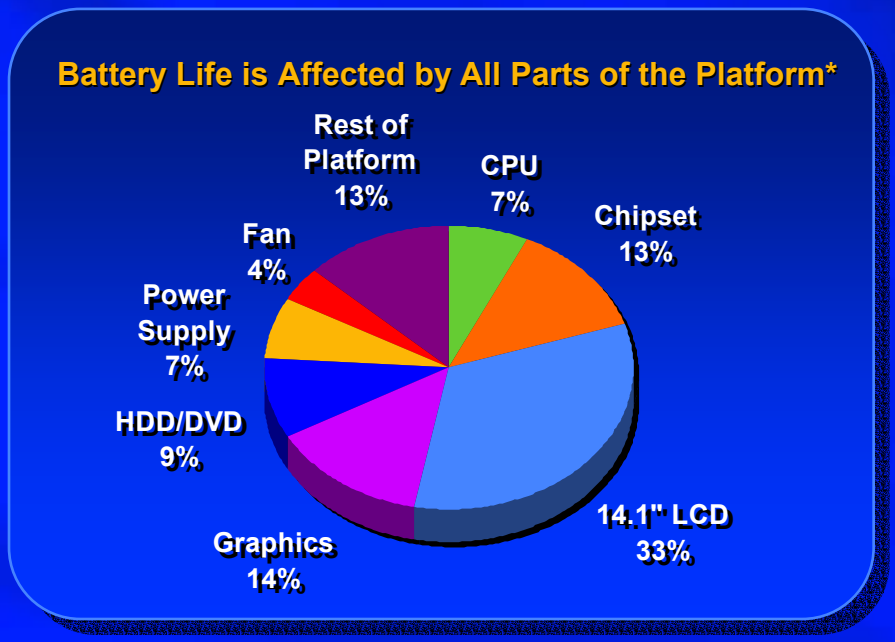
- Wireless Challenges:
 - Wireless security
 - Ease of use
 - Reliability/Robustness
 - Accessibility

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* Average power consumption of an OEM thin & light notebook during ZD-BL 4.01 Battery Mark

Designing For Mobility Requires Industry Focus . . .

- Wireless Challenges:
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* Average power consumption of an OEM thin & light notebook during ZD-BL 4.01 Battery Mark

Introducing The Intel® Mobility Enabling Program

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Video

Mobility Enabling Program Elements

2003 Target

Platform Guidelines
Suggested Ways to Deliver on the 4 Vectors

BKMs to Deliver Mobility

Wireless Stacks
Deliver Seamless More Secure Connectivity Experience

Wireless Stacks Just Work

Platform Enabling
Extend Intel's Validation Efforts to Include Battery Life and Wireless

Platform is Validated For Mobility

Optimize The Platform To Deliver Best Mobility



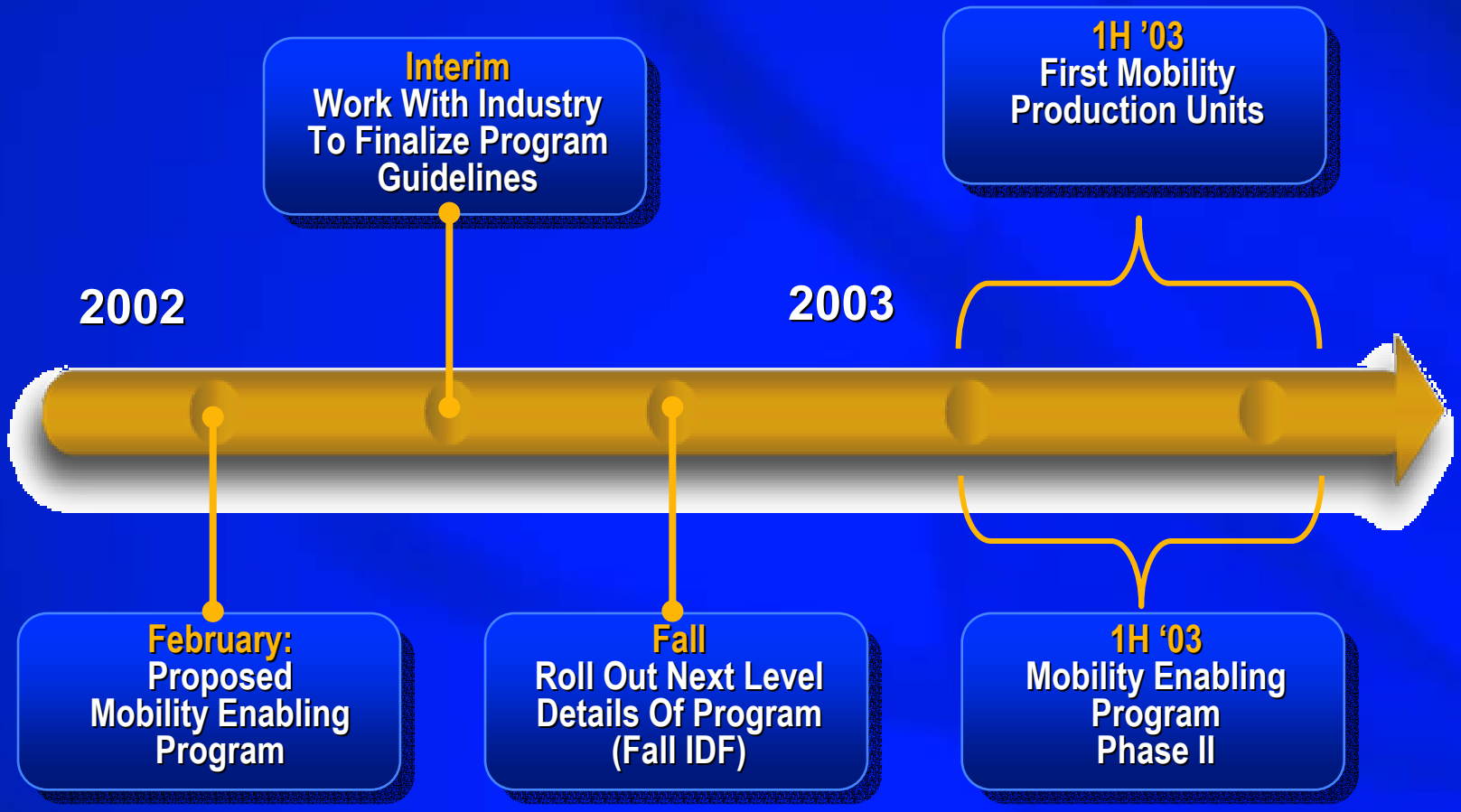
An example:
Banias Processor
Windows XP
802.11 Dual Band
Bluetooth* Wireless Tech
Quick Connectivity
CAPI Based Security
≤ 1.2" (2 spindles)
≤ 4.5 lbs (2 spindles)
~4.5 – 6.0 hrs battery

Multi-Year Program to Accelerate Transition to Mobility

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* Other names and brands may be claimed as property of others

What To Expect . . .



IDF: Best Place To Get Started

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Summary/Call to Action

- Mobile Pentium® 4 processor delivers excitement in ’02
- Wireless a key inflection point that drives growth
- Intel® Mobility Enabling Program is our collective opportunity to help the market to grow faster


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